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RESEARCH PROGRAM ON THE
TRAINING OF
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No. 5

VOCATIONAL TRAINING PROGRAM
IN CANADA

A. - Technical and Trade Training

Publicly - Operated

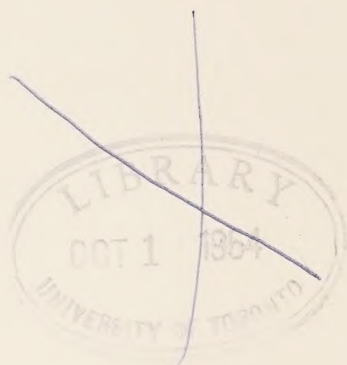
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Department of Labour, Canada,
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INTRODUCTION

This statistical summary is a follow-up to No. 5 A Report in this series, "Technical and Trade Training Program in Canada".

It gives detailed statistics of enrolment and graduation for full-time courses at all levels for the year 1957-58.

For further details or references, see Report No. 5 A.

Summary of Technical and Trade Training Enrolment in Canada, 1957-58

<u>Full-time</u>	<u>1957-58</u>	<u>1956-57</u>
Post-high school level:	5,332	4,753
High school level:	26,012	25,254
Trade level:		
Pre-employment:	7,908	7,075
Apprenticeship:	<u>7,472</u>	<u>6,358</u>
	46,724	43,440
<u>Part-time</u>		
Trade level:		
Day or evening:	53,735	48,887
Correspondence:	<u>4,813</u>	<u>4,169</u>
	58,548	53,056

Total enrolment in full-time, part-time and correspondence courses in 1957-58 was 105,272 compared to 96,496 for the previous year. This is an over-all increase of 9 per cent.

In addition to these figures, there were 3,204 subject enrolments in the part-time advanced technical classes in 1957-58, compared to 4,328 in 1956-57.

TABLE 1 - FULL-TIME EMPLOYMENT BY SECTOR IN CANADA
(Thousands of persons, full-time equivalent)

* Figures based on a survey of establishments and persons.
† Figures based on a survey of establishments and persons.
‡ Figures based on a survey of establishments and persons.

INDUSTRY SECTORS - FULL-TIME EMPLOYMENT BY SEX AND AGE

INDUSTRY AND SECTOR	SEX	15-24		25-34		35-44		45-54		55-64		65+	
		M	F	M	F	M	F	M	F	M	F	M	F
Manufacturing													
Food Processing (Food)													
Textile Milling (Textile)													
Chemical & Allied Products (Chemical)													
Metals & Metal Products (Metals)													
Transportation Equipment (Transportation)													
Other Manufacturing (Other)													
Construction													
Building Construction (Building)													
Manufacturing Construction (Manufacturing)													
Services													
Wholesale & Retail Trade (Trade)													
Food & Beverage (Food)													
Textile & Apparel (Textile)													
Chemical & Allied Products (Chemical)													
Metals & Metal Products (Metals)													
Transportation Equipment (Transportation)													
Other Manufacturing (Other)													
Health & Social Services													
Health & Social Services (Health & Social Services)													
Education													
Education (Education)													
Government													
Government (Government)													
Other													
Other (Other)													

STATISTICAL TABLES



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(Showing enrolment and graduation for 1957-58)

"Courses having a content of mathematics and science beyond that taught up to high school graduation or junior matriculation but not including university courses."

ENTRANCE REQUIREMENTS: HIGH SCHOOL GRADUATION OR EQUIVALENT

COURSE AND DURATION (By Field of Specialization)	N.S.		N.B.		QUE.		ONT.		ALTA.		B.C.	
	E	G	E	G	E	G	E	G	E	G	E	G
<u>Aircraft</u>												
Aero Engines (2yrs)											14	-
Aeronautical Engineering (3yrs)									69	11		
Aeronautical Technology (3yrs)							54	-				
Aircraft Maintenance Technology (2yrs)									14	2		
<u>Building Construction</u>												
Architectural Technology (3yrs)							189	34				
Construction Technology (2yrs)									13	2		
Plumbing & Heating (3yrs)					15	4						
Woodworking (3yrs)					176	41						
<u>Chemical</u>												
Chemical Technology (3yrs)							90	11				
Gas & Instrument Tech. (3yrs)							42	5				
Industrial Chemistry (3yrs)					36	15						
Industrial Lab.Tech. (2yrs)									54	7		
<u>Drafting</u>												
Architectural Drafting Technology (2yrs)									34	5		
Drafting (10mos)			14	12							85	35
Drafting General (9mos)									36	3		
Drafting Technology (2yrs)												
<u>Electrical and Electronics</u>												
Electrical & Electronic Technology (3yrs)							724	110				
Electricity (3yrs)					875	157						
Electronics (3yrs)					535	128						
Electronics (11mos)											58	25
Industrial Electrical Technology (2yrs)									51	13		
Radio & Electronics Technology (2yrs)									85	17		
Radio & Television (10mos)			17	14								
<u>Land Surveying</u>												
Land Surveying (1yr)	13	14										
Land Surveying Tech. (2yrs)									56	18		
- indicates nil or zero												

TABLE 1 - FULL-TIME POST-HIGH SCHOOL COURSES IN CANADA (Concl'd)
(Showing enrolment and graduation for 1957-58)

"Courses having a content of mathematics and science beyond that taught up to high school graduation or junior matriculation but not including university courses."

ENTRANCE REQUIREMENTS: HIGH SCHOOL GRADUATION OR EQUIVALENT

COURSE AND DURATION (By Field of Specialization)	N.S.		N.B.		QUE.		ONT.		ALTA.		B.C.	
	E	G	E	G	E	G	E	G	E	G	E	G
<u>Mechanical and Metalworking</u>												
<u>Mechanical & Metallurgical</u>												
Technology (3yrs)							264	41				
Blacksmith, Foundry,)												
Machinshop, Toolmaking,)												
Patternmaking (3yrs)					888	179						
Sheet Metal, Welding)												
Mechanical Technology (2yrs)									11	-		
Mechanical Technology (80wks)			8	-								
<u>Printing</u>												
Graphic Arts (3yrs)					130	31						
Printing Management (3yrs)							88	5				
<u>Textiles</u>												
Textile Technology (3yrs)					58	12	22	9				
<u>Miscellaneous</u>												
Automotive (3yrs)					185	28						
Diesel (3yrs)					29	9						
Furniture & Cabinet Making (3yrs)					26	3						
Furniture & Interior Design (3yrs)							46	9				
Mining Technology (2yrs)							108	53				
Pulp & Paper Making (3yrs)					94	31						
Refrigeration (3yrs)					26	2						
<u>TOTALS</u>	13	14	39	26	3073	640	1627	277	423	78	157	60

There are no post-high school courses in the Provinces of Newfoundland, Prince Edward Island, Manitoba and Saskatchewan or in the Yukon and North West Territories.

- indicates nil or zero

TABLE 2 - FULL-TIME HIGH SCHOOL COURSES IN CANADA
(Showing enrolment and graduation for 1957-58)

"Courses with a definite occupational objective including the study of high school mathematics, science, languages and social studies, and training in specific trade skills and theory."

ENTRANCE REQUIREMENTS: In five provinces, the regular high school course is at the level of Grades 10, 11 and 12; in Saskatchewan and Ontario it is at the level of Grades 9, 10, 11 and 12.

COURSE AND DURATION (By Field of Specialization)	N.S.		N.B.		ONT.		MAN.		SASK.		ALTA.		B.C.	
	E	G	E	G	E	G	E	G	E	G	E	G	E	G
<u>Automotive</u>														
Automotive (4yrs)					..	208			..	..		
Automotive (3yrs)	65	3	..	..			90	18	..	..	1203	66	288	33
Auto Body (4yrs)									..	..		
<u>Building Construction</u>														
Brick & Tile (2yrs)	12	4												
Carpentry (4yrs)					..	46								
Carpentry (3yrs)	59	12	..	..									393	24
Construction Wiring (3yrs)	27	8												
Heating & Ventilating (3yrs)	28	4												
Painting & Decorating (2yrs)	19	4												
Plumbing (4yrs)					..	1								
Plumbing (3yrs)	33	5												
Woodworking (4yrs)					..	53			..	..		
Woodworking (3yrs)							34	4			636	44		
<u>Drafting</u>														
Drafting (4yrs)									..	..		
Drafting (3yrs)			..	..			61	14					236	56
Drafting Archit. (4yrs)					..	89								
Drafting Mech. (4yrs)					..	311								
Drafting Mech. (3yrs)	28	10												
<u>Electrical and Electronics</u>														
Applied Electricity (4yrs)					..	304								
Applied Electronics (4yrs)					..	79								
Electricity (4yrs)							125	23	..	..	795	22	248	47
Electricity (3yrs)			..	..								
Electronics (3yrs)			120	13										
Radio Operating and Servicing (4yrs)									..	..		
Radio Servicing (3yrs)	37	5												
T.V. Servicing (3yrs)	8	8												

.. indicates figures not available.

TABLE 2 - FULL-TIME HIGH SCHOOL COURSES IN CANADA (Concl'd)
(Showing enrolment and graduation for 1957-58)

"Courses with a definite occupational objective including the study of high school mathematics, science, languages and social studies, and training in specific trade skills and theory."

ENTRANCE REQUIREMENTS: In five provinces, the regular high school course is at the level of Grades 10, 11 and 12; in Saskatchewan and Ontario it is at the level of Grades 9, 10, 11 and 12.

COURSE AND DURATION (By Field of Specialization)	N.S.		N.B.		ONT.		MAN.		SASK.		ALTA.		B.C.		
	E	G	E	G	E	G	E	G	E	G	E	G	E	G	
<u>Mechanical and Metal Working</u>															
Foundry (3yrs)													25	4	
Machine Shop (4yrs)					..	234			..	..			
Machine Shop (3yrs)	28	2	..	..			25	3					385	62
Metal Work (3yrs)											524	31			
Pattern Making (Wood) (4yrs)					..	12									
Sheet Metal (4yrs)					..	23									
Sheet Metal (3yrs)	22	-	..	..			22	2					177	21
Welding (4yrs)					..	24			..	..			
Welding (3yrs)			..	..			11	1						
Welding (2yrs)	23	5													
<u>Printing</u>															
Graphic Arts (3yrs)							36	9							
Printing (4yrs)					..	70									
Printing (3yrs)			..	..							125	38	58	17
<u>Miscellaneous</u>															
Aircraft Mech. (4yrs)					..	14									
Cabinet Making (4yrs)					..	-									
Cabinet Making (3yrs)			..	..									
Electrical and Steam Operating(4yrs)					..	2									
Industrial Chemistry (4yrs)					..	52									
<u>TOTALS</u>	389	70	456	202	176	77	1522	404	74	1273	211	3283	201	1810	264

There are no high school industrial courses in the Provinces of Newfoundland, Prince Edward Island and Quebec or in the Yukon and Northwest Territories.

.. indicates figures not available.

- indicates nil or zero.

TABLE 3 - FULL-TIME TRADE COURSES IN CANADA
(Showing enrolment and graduation for 1957-58)

"Courses Designed to Prepare Youths and Adults who have left the Regular School System for Entry into Employment or to Upgrade those Already in Jobs. The Skills of the Trade are Emphasized as well as Trade Theory, Mathematics and Science as Required to Work Effectively in the Trade."
ENTRANCE REQUIREMENTS: Minimum Entrance Requirements: Grade 7 Certificate in Quebec; Grade 8 Successful Completion in Other Provinces.

COURSE AND DURATION (By Field of Specialization)	NFLD.		N.S.		P.E.I.		N.B.		QUE. ^(a)		ONT.		MAN.		ALTA.		B.C.	
	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G
Automotive																		
Auto Body Repair (2yrs) (7-12 mos)	20	19					19	17	46	25			26	..			36	13
Auto Body Repair (6 mos)			98	70													101	62
Auto Body Repair (7-12 mos)	19	18			18	11	33	30	937	225			39	..	41	11		
Auto Mechanics (2yrs)																		
Automotive (2-3 mos)																		
Bull Dozer Operator (2yrs)																		
Diesel (7-12 mos)	22	18	43	25	15	13			24	19	10	9	86	28	52	41	54	25
Diesel (5 mos)																		
Diesel (6-9 mos)																	56	38
Heavy Equipment Mech.																		
Building Construction																		
Bricklaying (7-12 mos)									75	...							5	..
Bricklaying (6 mos)							13	8										
Carpentry (2 yrs)									658	115								
Carpentry (7-12 mos)	18	12			18	5	10	8	64	...			22	..			118	48
Lathing (7-12 mos)																	14	..
Painting (6-10 mos)									61	...							2	..
Plastering (6-10 mos)									65	...								
Plumbing (2 yrs)									6	2								
Plumbing (7-12 mos)	22	18	8	7	12	7			69	...							32	12
Plumbing (3-6 mos)																		
Tile Setting (6-10 mos)									18	...								

(a) courses of less than two years' duration are offered in the apprenticeship centres.

... indicates figures not applicable.

.. indicates figures not available.

TABLE 3 - FULL-TIME TRADE COURSES IN CANADA (Cont'd)
(Showing enrolment and graduation for 1957-58)

*Courses Designed to Prepare Youths and Adults who have left the Regular School System for Entry into Employment or to Upgrade those Already in Jobs. The Skills of the Trade are Emphasized as well as Trade Theory, Mathematics and Science as Required to Work Effectively in the Trade."
ENTRANCE REQUIREMENTS: Minimum Entrance Requirements: Grade 7 Certificate in Quebec; Grade 8 Successful Completion in Other Provinces.

COURSE AND DURATION (By Field of Specialization)	NFLD.		N.S.		P.E.I.		N.B.		QUE.(a)		ONT.		MAN.		ALTA.		B.C.	
	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G
<u>Drafting</u> Architectural Drafting (8-10 mos) Drafting (9 mos) Machine Drawing (8-10 mos)	16	14			11	8							64	33				
									11	25			28	14				
<u>Electrical and Electronic</u> Electricity (2 yrs) Electricity (7-12 mos) Electrical Appliances Repair (7 mos) Radio (2 yrs) Radio Servicing (7-12 mos) Television Servicing (4 mos)	18	15			7	6	20	18		349			30	..			77	43
									72	...			12	2				
									30	12			54	23				
													28	21				
<u>Mechanical and Metal Working</u> Blacksmithing (2 yrs) Foundry (2 yrs) Machine Shop (2 yrs) Machine Shop (7-12 mos) Machine Shop (6 mos) Pattern Making (Wood) (2 yrs) Sheet Metal (2 yrs) Sheet Metal (6-10 mos)	10	9					6	5					14	2			61	8
					59	36			19	5								
									11	4								
									1021	251								
									18	7								
									188	48								
									55	...							5	..

(a) courses of less than two years' duration are offered in the apprenticeship centres.

... indicates figures not applicable.

.. indicates figures not available.

.. (Showing enrolment and graduation for 1957-58)

"Courses Designed to Prepare Youths and Adults who have left the Regular School System for Entry into Employment or to Upgrade those Already in Jobs. The Skills of the Trade are Emphasized as well as Trade Theory, Mathematics and Science as Required to Work Effectively in the Trade."

ENTRANCE REQUIREMENTS: Minimum Entrance Requirements: Grade 7 Certificate in Quebec; Grade 8 Successful Completion in Other Provinces.

COURSE AND DURATION (By Field of Specialization)	NFLD.		N.S.		P.E.I.		N.B.		QUE. ^(a)		ONT.		MAN.		ALTA.		B.C.			
	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G	E	G		
<u>Mechanical and Metal Working</u>																				
Welding (2 yrs)									379	89										
Welding (7-12 mos)	20	19			21	18			43	...			128	110			210	91		
Welding (3-6 mos)			157	72			13	12							162	142				
Welding (Special)																				
<u>Miscellaneous</u>																				
Boat Building (7-12 mos)									47	12							12	..		
Cabinet Making (2 yrs)																				
Cabinet Making (Millwork) (10 mos)							10	7												
Graphic Arts (2 yrs)									139	61										
Refrigeration (2 yrs)									59	19			23	7	7	3				
Refrigeration (7-12 mos)									11	...										
Stationary Engineering (9 mos)	28	21																		
Woodworking (General) (9 mos)	11	9											7	..						
Woodworking (Factory) (6-7 mos)																				
TOTALS	204	172	365	210	102	68	139	119	524	0	124	3	10	9	561	240	262	197	823	372

NOTE: Training programs in the Northwest Territories: carpentry at Aklavik and Fort Smith, 41 enrolled; heavy equipment maintenance and operation at Aklavik and Leduc, 161 enrolled.

(a) courses of less than two years' duration are offered in the apprenticeship centres.

... indicates figures not applicable.

.. indicates figures not available.

TABLE 4 - FULL-TIME ANNUAL CLASSES FOR APPRENTICES IN CANADA
(Showing intake for 1957-58)

"Day classes taken by indentured apprentices for a specific period of time, usually during each year of apprenticeship or as laid down in their apprenticeship agreement."

ENTRANCE REQUIREMENTS: The academic entrance requirements vary with each province, it is usually Grade 8 or more; duration also varies according to individual apprenticeship agreement; see provincial Table 12 for details.

C O U R S E (By Field of Specialization)	NFLD.	N.S.	N.B.	ONT.	MAN.	SASK.	ALTA.	B.C.
	I	I	I	I	I	I	I	I
<u>AUTOMOTIVE</u>								
Auto Body Repair	14				22	18	176	
Automotive								19
Auto Mechanics	54				119			
Motor Mechanics		121				185	806	
Motor Vehicle Repair				650				
<u>BUILDING CONSTRUCTION</u>								
Bricklaying		24		53	32	27	43	20
Carpentry	9	48		152	91	138	189	189
Lathing (Metal)				34				28
Painting and Decorating				23	40		52	15
Plastering				21	24		55	58
Plumbing	12	17		358	109	84	404	81
Steamfitting				150	12		85	
<u>DRAFTING</u>								
Structural Steel (Drafting and Detailing)				49				
<u>ELECTRICAL AND ELECTRONIC</u>								
Electricity						123	399	63
Electrical Construction		32		509	124			
Linemen			52					
<u>MECHANICAL AND METAL WORKING</u>								
Blacksmithing					1			
Machine Shop							42	62
Millwright and Machinist	8							
Sheet Metal				170	41	64	181	46
Steel Fabrication and Welding								32
Welding						42	541	
<u>MISCELLANEOUS</u>								
Factory Woodworking					11			
Refrigeration					9			
Stationary Engineering	7							
Woodworking	3							
<u>TOTALS</u>	107	242	52	2,169	635	681	2,973	613

There are no full-time annual classes for indentured apprentices in Quebec. All full-time apprenticeship training in this province is done on a pre-apprenticeship basis. See Table 5.

In New Brunswick, apprenticeship training is largely on a part-time or pre-apprenticeship basis. Courses for apprentices are referred to as "refresher courses".

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